Problem 6.1
Table 6.7: Experimental Results in Session 1 Mean Price \$22.93
Number of Lawn Ornaments Sold 15
Total Profits of Sellers from Transactions \$69.00
Total Profits of Buyers from Transactions \$146.00
Total Cost of Pollution \$300.90

Total Profits of All Residents,
Net of Pollution Costs -\$85.90

Problem 6.2
Table 6.8
Mean Price \$31.71
Number of Lawn Ornaments Sold 7
Total After-Tax Profits of Sellers
from Transactions -\$4.00
Total Profits of Buyers from Transactions \$38.00
Total Tax Revenue $\$ 140.00$
Total Cost of Pollution \$140.42
Total Profits and Tax Revenue of All
Residents, Net of Pollution Costs
\$33.58

Problem 6.3
Table 6.9: Experimental Results in Session 3
Mean Price of Ornaments \$29.25
Mean Price of Permits \$8.06
Number of Lawn Ornaments Sold 8
Profits of Lawn Ornament
Sellers from Transactions \$50.50
Profits of Lawn Ornament
Buyers From Transactions \$71.00
Total Revenue of Permit Sellers \$64.50
Total Cost of Pollution \$160.48
Total Profits of All Residents,
Net of Pollution Costs. \$25.52

Figure 6.5



Table 6.10: Predictions of the Theory: Session 1
Mean Price \$25
Number of Lawn Ornaments Sold 14
Total Profits of Sellers from Transactions $\$ 128.00$
Total Profits of Buyers from Transactions \$135.00
Total Cost of Pollution
\$280.84
Total Profits
-\$17.84

Problem 6.6
Part a) Shifts the supply curve up by $\$ 20$.
Part b) No effect on demand curve.

Problem 6.7

Table 6.11: Predictions of the Theory-Session 2
Mean Price $\$ 35.00$
Number of Ornaments Sold 7
Total Profits of Buyers \$30.00
Total Profits of Sellers
$\$ 24.00$
Total Tax Revenue $\$ 140.00$
Total Cost of Pollution \$140.42
Total Profits and Tax Revenue of All
Residents, Net of Pollution Costs \$53.58

The total income of all residents is higher when the pollution tax is imposed.

Problem 6.8
Competitive equilibrium prediction for price of ornaments is
Competitive equilibrium prediction for quantity of ornaments is

Problem 6.9
Table 6.12: Willingness to Pay for Pollution Permits

| Seller <br> Cost | Number in Willingness to Pay <br> Market |  | for a Permit |
| :--- | :---: | :---: | :---: |
|  | 8 | 2 | $\$ 27.00$ |
| 13 | 5 | $\$ 22.00$ |  |
| 18 | 4 | $\$ 17.00$ |  |
| 23 | 3 | $\$ 12.00$ |  |
| 28 | 3 | $\$ 7.00$ |  |

Problem 6.10
Table 6.6: Supply and Demand for Permits.


These curves intersect where the price of permits is \$17

